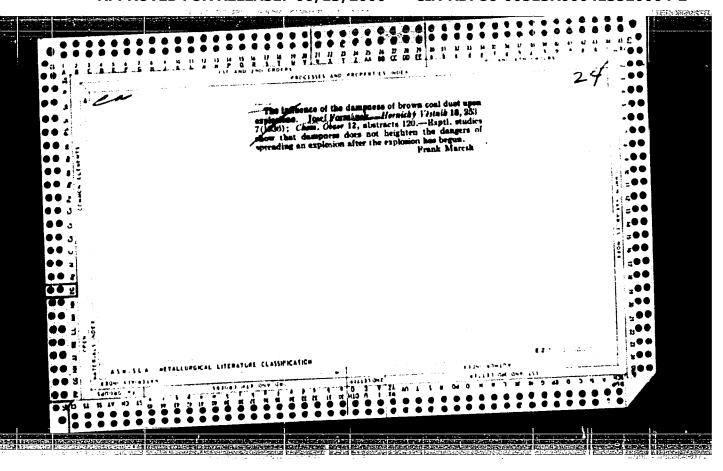
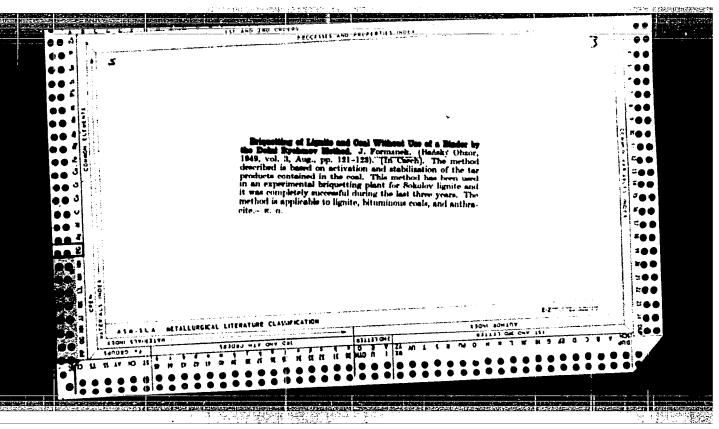
FORMANEK, Jiri

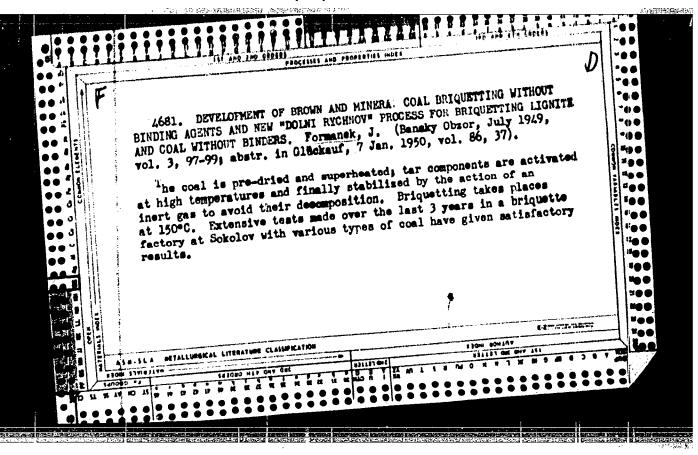
International summer school on symmetry in the physics of elementary particles. Cs cas fys 15 no.3:291-292 65.

1. Faculty of Technical and Nuclear Physics of the Czech Higher School of Technology, Prague. Submitted November 5, 1964.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"







FORMANEK, J.

"Coal Briquetting" p. 149, Praha, Vol. 34, no. 6, June 1954.

SO: East Enropean Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

FORMANCK, J.

"Effect of new methods of work on the fulfillment of the Plan in the North Bohemian Brown-Coal Mines."

Uhli, Praha, Vol 3, No 9, Sept. 1953, p. 265

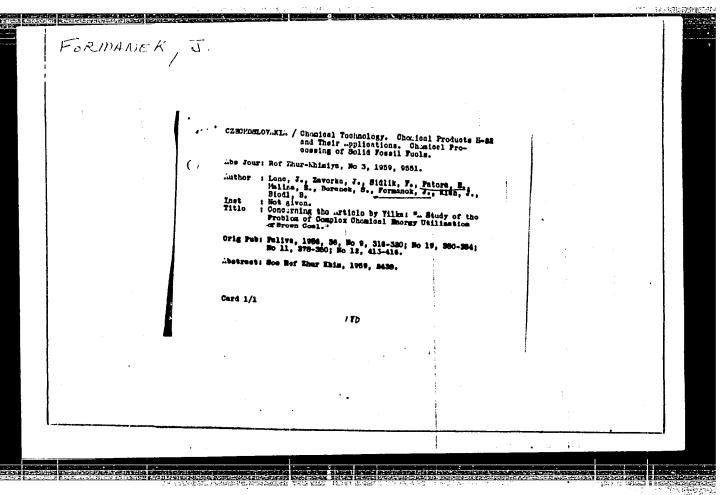
SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

FORMANEK, J.

FORMANEK, J. Present problems in the drying, briquetting, and utilizing of coal in Soviet science and practice. (To be contd.) p. 556

Vol. 5, no. 5, 1956 SOVETSKA VEDA: HORNICTVI-HUTNICTVI. TECHNOLOGY Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957



FORMANEK, J.

TECHNOLOGY

periodicals: RUEY Vol. 6, no. 7, Sept. 1958

FORMANEK, J. Dressing of lead-zinc ores in Sweden. p. 317.

Monthly List of East European Accessions (FEAI) LC Vol. 8, no. 5 Hay 1959, Unclass.

FORTAMER, J.

TECHLOLOGY

periodicals: RUDY Vol. 6, no. 12, Dec. 1958

FORWAYER, J. Two-stage hydrocyclones. p. 426.

Honthly List of East European Accessions EEAI LC Vol. 8, no. 5 May 1959, Unclass.

CZECHOSLOWAKIA/Chemical Technology - Chemical Products and Their H.

Application. Chemical Processing of Solid Possil

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Fuels.

Abs Jour : Ref Zhur - Khimiya, H. 10, 1959, 36298

Author : Formuck, J.

Inst : -

Title : Reprocessing of Lighte of the Sokolov Deposits.

Orig Pub : Uhli, 1958, 3, Hb9, 321-325.

Abstract : Investigatory technics-economical comparisons indicated

the advantages of briquetting Sokolov's coal for power purposes and semicoking and also the expediency of dry-

ing the coal by vapor under pressure.

Card 1/1

H-115

S/058/62/000/004/012/160 A058/A101

AUTHOR:

Formánek. J.

TITLE:

On the Úlehla-Petrás wave equation

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 36, abstract 4A285 ("Chekhosl. fiz. zh.", 1961, V11, no. 8,545 - 553, English;

Russian summary)

TEXT:

Petrás (RZhFiz, 1956, no. 11, 30891) and Úlehla (RZhFiz, 1958, no. 5,

9961; 1959, no. 6, 12201) proposed a relativistic wave equation having the following general canonical form:

$$(x^{iL}D_{\mu}-ix)\varphi=0.$$

This equation describes spin 1/2-particles but does not coincide with the Dirac equation. The author investigates separately the Petrás and Úlehla wave equations for an electrically charged spin 1/2-particle. He examines the transformation of these equations into each other, as well as their connection with the conventional Dirac-Pauli equation. [Abstracter's note: Complete translation]

Card 1/1

FORMANEK, J.

Right-handed and left-handed coordinate systems in the theory of particles with spin 1/2. Chekhosl fiz zhurnal 14 no.9:657-666 '64.

1. Faculty of Technical and Nuclear Physics, Czech Higher School of Technology, Prague 1, Brehova 7.

CHECHOSLOVAMIA

H. FISCHER, D. PRANTIKOVA and J. FORMANEK, Institute of Work Hygiene and Occupational Diseases (Ustav Bygieny prace a chorob z jovolani) head (prednosta) By Ivof J. THISINGER, DrBc; and Communications hesearch Institute, (Vyzkumny ustav spoju), Chief (reditel) Inz F. BOZIK, Prague.

"Gocupational Health Problems in Long-Distance Telephone Operators."

Iraque, Pracevni Lekarstvi, Vol 14, No 10, Dec 1962; Fr 471-476.

Abstract Linglish summary modified: Comprehensive review of the world linevature on the topic: proneness to neurotic lability, sensory (espanditory) impairment, autonomic-endocrine disturbances. Authors found negative results in limited studies on blood pressure and skin temperature measurements. They find no justification for considering neurones as occupational and compensable, but auditory changes are such, however, they are mostly minor in degree. The problems persist, however, and remedial measures are outlined. The present 6,000 Czechosl. operators will not decrease in number until 1965; from then on automation will affect them- to 1,100 in 1980. About 40 worldwide ref's.

ጃ**ቮ**ዮጵያ የድው ትዕጽ ፕሮኒ፵ል SE.^Δ የፀ፱/13 ሃ20 ዕር cous ሮቷጃ-RDP86-00513 R0 00413520004-2"

Abs Jour : Ref Zhur - Fizika, No 11, 1958, No 26099

Author Formenck Karel

Inst Not Given

Title : Acoustics and Architectural Finish of Motion Picture Theatres.

Orig Fub : Filmovy technik, 1958, 6, No 1, 6-7

Abstract: It is noted that it is necessary to make greater use of new acoustic meterials, particularly when finishing wide-screen metion picture theaters.

Card : 1/1

FORMANEK, V.

Experiences from the economic surveys done at the Hlubina Mine. p. 273.

UHII (Ministerstvo paliv) Praha, Czechoslovakia. Vol. 1, no. 8, Aug. 1959

Monthly list of East European Accessions (EEAI), Vol. 9., no. 1, Jan. 1960

Uncl.

Z/034/62/000/008/001/004 E073/E335

Formanck, Vilem and Mares, Zdenek, Engineers AUTHORS:

Verification of the cooling process of a CrNiMo TITLE:

steel ingot

Hutnicke listy, no. 8, 1962, 559 - 562 PERIODICAL:

The manufacture of shafts of electric generators of 100 MW and greater, weighing 100 - 130 t, for which CrNiMo steel

with yield points above 50 kg/mm² is used, requires the use of presses with pressures of the order of 10 000 t. Their manufacture in Czechoslovakia is in two stages: casting by ZVIL, Pilsen; transportation to NHKG, Ostrava, inside specially designed "hot buggies" which retain the ingot in the hot state during its transportation, lasting 3-4 days. Before introducing these special "thermal bunkers" the ingots were pre-forged in Pilsen, then cooled down for transportation in the cold state. The first ingot thus cooled developed a longitudinal crack and had to be scrapped. This block was then used as an experimental material for verifying the progress of the temperature during

Card 1/4

Z/034/62/000/008/001/004 E073/E335

Verification of

the individual phases of the cooling process and a safe annealing process was worked out, from the results obtained, which could be realized in practice. The composition of the material was as follows: 0.31% C, 0.50% Mn, 0.25% Si, 0.013% P, 0.021% S, 1.55% Cr, 2.22% Ni, 0.47% Mo and 0.14% V. The block was forged from an ingot weighing 105 t into an octangle with an internal diameter of 1 850 mm; a journal for upsetting was forged from the head of the ingot. The block dimensions are shown in Fig.1 and the location of the holes for accommodating the thermocouples is shown in Fig. 2. The process of cooling was as follows:

1) charging into the furnace after forging and equalization of the temperature to 850 °C; 2) cooling to below 300 °C inside the closed furnace, which was made airtight, and maintaining at this temperature until the temperature had equalized;

3) heating to 850 - 870 °C and maintaining at this temperature until equalization was achieved; 4) repeating as per (2);

5) heating to 650 °C and holding at this temperature until equalization was achieved; 6) cooling in the closed and Card 2/4

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Z/034/62/000/008/001/004 E073/E335

Verification of

airtight furnace to below 100 °C; 7) storing of the block in a protected spot of the workshop until complete cooling has been achieved. The aim was to verify to what extent and for how long it was necessary to retain the block in the forging furnace (regeneration type 6 750 \times 4 200 mm; height of the working space 4 150 mm. with 4 burners fitted along the lateral walls, burning unpurified producer gas of 1 700 kcal/m) to achieve an equalization of the temperature throughout the cross-section at 850 and 650 °C, respectively. A considerable number of the measured values are tabulated. On the basis of the obtained results the following revised process of heating and cooling is proposed: a) cooling from the final forging temperature down to 250 - 500 °C in a tight furnace, the temperature-monitoring being effected by means of contact thermocouples or temperature crayons; b) heating to 850-870 °C for 18 h during which the surface temperature must not exceed 900 °C or drop below 800 °C and then holding for 35 min; c) cooling in the closed and tightened furnace down to 250 - 300 °C; d) heating to 650 °C (measured by a thermocouple lowered to the surface of the block) for 15 h and maintaining at this temperature for at least 60 h; Card 3/4

Z/034/62/000/008/001/004 E073/E335

Verification of

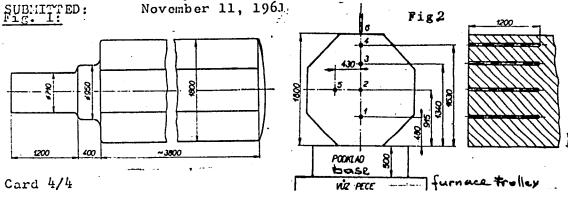
e) cooling in the closed and tightened furnace to achieve a surface temperature below 100 °C, which is measured by thermocuples or temperature (indicating) crayons. This revised cooling process proved satisfactory for safe cooling of CrNiMo ingots..

There are 3 figures and 1 table.

ASSOCIATIONS:

NHKG, Ostrava-Kuncice

Zavody V.I. Lenina, Plzen (V.I.Lenin Works, Pilsen)



FORMANEK, Z.; BAUER, J.

Thermobalance with direct registration. p. 164. (SILIKATY, Vol. 1, No. 2, 1957, Praha, Gzechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

FORMINNER Z.

S/081/62/000/019/019/053 B144/B180

AUTHORS:

Štovík, Miroslav, Zahradník, Lubomír, Tyroler, Jiří, Vondraková, Zdene, Formanek, Zdenek

TITLE:

Production of concentrates of germanium and other trace elements by burning coal in furnace grates

PERIODICAL:

Referativnyy zhurnal. khimiya, no. 19, 1962, 340, abstract 1982 (Czechoslovakian patent 99414, April 15, 1961)

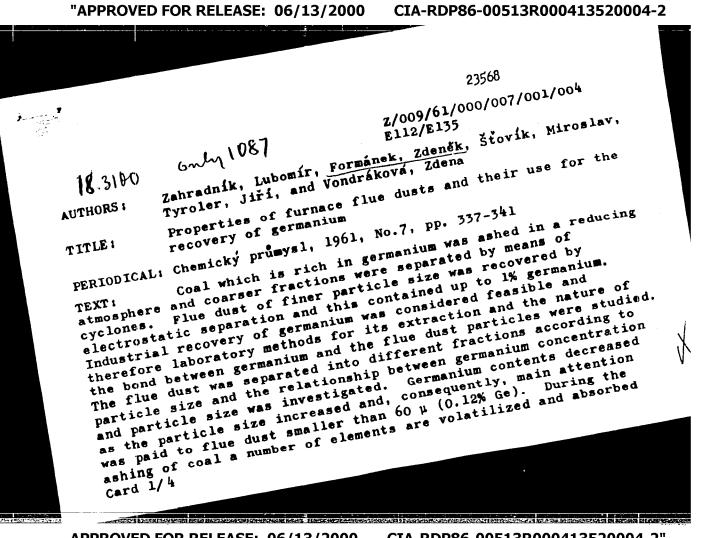
TEAT: When coal is burned in furnaces, almost all the Ge is carried away with the finer fractions in the form of volatile compounds. For more complete removal it is suggested that the coal should be burnt in a reducing atmosphere. To this end the entry of primary air from below is restricted to a minimum and that of secondary air above the grate is increased. The amount, of Ge compounds adsorbed in the thin fractions then rises to 80% the Ge content of the coal. The combustion bases are led through a cyclone, where the largest particles are separated, and then through an electrostatic filter and a second cyclone. Alternatively, after separating the large particles, the gas is passed through a scrubber, (with either mineral or silicard 1/2

S/081/62/000/019/019/053 B144/B180

Production of concentrates ...

cone oil), and then conducted through a hydrocyclone and a centrifuge, where the thin fraction is separated. The wash liquid is continuously recycled. Additions of 2-3% by weight sulfur (pyrite) to the coal promote, the formation of volatile Ge compounds (GeS, GeZ). Diagrams of the process are shown. [Abstracter's note: Complete translation.]

Card 2/2



23568

Z/009/61/000/007/001/004 E112/E135

Properties of furnace flue dusts and their use for the recovery of germanium

from the gaseous phase by the flue dust particles. The sorption process was studied by determining the concentrations of the various elements in the original coal and the flue dust. Spectroscopic methods of analysis were used and results are tabulated. On the average, the flue dusts contained between 27 and 33% combustible materials. Their concentration decreased on extraction with 0,2 N-H₂SO₄, indicating that they did not consist entirely of carbon. Results for three types of flue dust are tabulated, showing the following: 1) loss of weight of flue dust on calcination; 2) loss of weight of flue dust on calcination, after extraction with H2SO4; and 3) loss of weight of flue dust on extraction with H2SO4. Results of spectrographic analyses of flue dusts, H2SO4-extracts and extraction residues are submitted, listing all elements occurring in the three different fractions in the following concentrations: 1) higher than 1%; 2) 1.0-0.1%; 3) 0.1-0.01%; and 4) lower than 0.01%. The following values are tabulated for germanium: original sample of flue dust, 1 - 0.1%; Card 2/4

23568 Z/009/61/000/007/001/004 E112/E135

Properties of furnace flue dusts and their use for the recovery of germanium

 H_2SO_4 -extract, 1 - 0.1%; ashing residue of H_2SO_4 -extract, 0.1 -0.01%. Extraction methods for germanium from flue dusts, using water, acids, and alkalis, are described. Water extraction recovered about 50% of the available germanium. Extractability with H2SO4 was inversely proportional to the concentration of the latter, (20 N-H2S04 extracted 64.5% Ge, while 0.05 N-H2S04 gave 96.7% recovery). On the other hand, extractability with HCl increases with increased concentration. Recovery of Ge by means of HNO3 was not feasible. The separation of Ge by means of HCl from the coarser fly ashes is also described. An addition of HF (in the form of CaF2) is recommended to convert the SiO2 to SiF4, which is driven off by heating. Extraction with weakly alkaline solutions was somewhat inferior to processing with dilute acids. In order to obtain additional information about the isolation of germanium from flue dusts, the volatility of germanium dioxide at different temperatures was studied and results are tabulated. It was found that up to 400 °C germanium was not volatile and was Card 3/4

23568

z/009/61/000/007/001/004 E112/E135

Properties of furnace flue dusts assumed to be present as GeO_2 , easily soluble in alkalies. other hand, samples of flue dust, heated under identical conditions, showed poor extractability of Ge by means of dilute sulfuric acid. This is explained by the poor solubility of GeO2 in H2SO4. concluded from laboratory experiments that flue dusts containing 0.3-1.0% Ge present a suitable raw-material for a Czechoslovak germanium recovery industry. Extraction with dilute sulfuric acid or treatment with HCl and distillation as GeCl4, optionally in a stream of HCl, are suggested. The described laboratory methods were utilized for industrial scale production, details of which are to be published later. There are 7 figures, 12 tables and 12 references: 3 Czech,

7 English and 2 German.

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Ústav nerostných surovin, Praha ASSOCIATION:

(Institute for Mineral Raw-Materials, Prague)

January 16, 1961 SUBMITTED:

Card 4/4

Z/009/61/000/012/001/005 E112/E953

AUTHORS:

Zahradník, Lubomír, Formánek Zdeněk, Šťovík Miroslav, Tyroler Jiří and Vondraková Zdena

TITLE:

Recovery of germanium dioxide from flue dusts

PERIODICAL:

Chemický průmysl, no.12, 1961, 625-629

The only domestic source of germanium in Czechoslovakia are the flue dusts from certa_n coals (germanium contents range from 0.2 to 0.8%) and the present paper discusses three possible methods of recovery via germanium dioxide: 1) Extraction with water or inorganic solvents, such as H₂SO₄, HCl, HNO₃, NaOH and (NH₄)₂S_x. Best results are achieved with 0.05 N-H₂SO₄, yielding up to 97% of the available germanium. Extraction efficiency is closely connected with the physical characteristics of the flue dusts, good recoveries being obtainable only with flue dusts of very fine particle size. Furthermore, only germanium available in soluble form will respond to the method. 2) Chlorination of flue dusts. This process can be operated either at lower temperatures, in presence of steam, or at high temperatures, in presence, of air. Compared to the distillation method with HCl, Card 1/84

Recovery of germanium ...

%/009/61/000/012/001/005 E112/E953

yields of germanium are inferior and the recovered products less pure. A further rectification is therefore necessary. The chlorination method, on the other hand, offers the advantage that even very low-content flue dusts can be processed. 3) Direct distillation with HCl. This method is considered the simplest from the technological point of view. It is only suitable for raw materials, containing germanium in a volatilisable form and is not economical for flue-dusts with low germanium content. The method consists of treating the flue dust with HCl, and procedures for the separation of the formed GeCl4 are described in detail. So far, this has been effected in two ways: a) Absorption of the gaseous mixture in water, containing 20% HCl. A recovery of 2-13 g germanium per l litre is feasible but this is considered unsatisfactory. b) Feparation of germanium tetrachloride by condensation. However, considerable amounts of GeCl4 are entrained by HCl, and the method is, therefore, rejected as uneconomical. The authors now offer a new procedure for GeCl4 absorption, based on the use of non-polar solvents, of which carbon tetrachloride has proved the most suitable. The efficiency of a 0.2% GeCl4 solution in CCl4

Card 2/54

Recovery of germanium ...

Z/009/61/000/012/001/005 E112/E953

is given as 97-99.5% at 20°C. As practical processing would require large volumes of CCl₄ (1500 kg/kg Ge) a two-step absorption process is suggested. A diagram of a laboratory arrangement for the continuous recovery of germanium tetrachloride by the carbon tetrachloride method is shown (Fig.6). The apparatus operates under slight vacuum and has a capacity of 30 kg flue dust per day. The solution of GeCl₄ in CCl₄ is preliminarily refined by extraction with concentrated hydrochloric acid, containing 10% nitric acid. Hydrolysis of GeCl₄ is carried out in the usual way. The experience gained in laboratory trials led to the construction of a semi-technical batch-wise unit, which in two months produced 10 kg germanium dioxide from 1000 kg flue dust. There are 5 tables, 5 figures and 5 references: 2 Soviet-bloc and 3 non-Soviet bloc. The English-language references read as follows: Ref.1: Journal of Metals, 979(1953); Ref.2: Johnson O.H., Chemical Reviews, vol.51, 432 (1952); Ref.5: Aubrey K.V., Nature, vol.176, 2 (1955).

ASSOCIATION:

Ústav nerostných surovin, Praha (Institute for Mineral Raw Materials, Prague)

Card 3/54

Recovery of germanium ...

Z/009/61/000/012/001/005 E112/E953

SUBMITTED:

January 16, 1961

Fig.6. Legend.

1 - mixing vessel, with stirrer, for absorption of flue dust in hydrochloric acid,

3,4 - steam-heated boiling tubes.

5 - separator,

6 - condenser,

7 - absorption vessel,

8 - absorption column with Raschig rings,

10 - separating funnel with CCl₄, 9 - condenser, cooled to 0°C, 11 - reservoir, to which a slight vacuum is applied.

Card 4,

Z/012/62/000/001/007/007 E112/E453

AUTHORS &

Formanek, Z., Dykast, J.

TITLE :

An automatic transistorized recording balance for simultaneous differential and gravimetric thermal

analyses

PERIODICAL: Silikaty, no.1, 1962, 113-118

The described instrument was designed to record simultaneously, by means of two independent line recorders, differential and gravimetric thermal-analyses-graphs from a single It was constructed specially for serial work, and is specimen. simple to operate and to service. The instrument is capable of producing five complete differential and gravimetric analyses in an 8-hour day and for a temperature range up to 1000°C, with a temperature increment of 14°C/min. The change in weight is recorded by means of a germanium photo-diode and is compensated by drawing the magnetic core into the solenoid. The differential voltage is recorded by means of a system galvanometer-photodiodeamplifier, the latter having a very strong regenerative feedback The instrument includes: four vertical at the input of the system. Card 1/5

Z/012/62/000/001/007/007 E112/E453

An automatic transistorized ...

mutually interchangeable furnaces, one thermobalance, line recorders, galvanometers, photocells transistor amplifiers, The operation of the indicators and relay control systems. instrument is described under five main headings: A linear increase in temperature of the 1) Control of heating. system is safeguarded by maintaining a constant temperature difference of two thermocouples, one of which is placed inside, the other on the surface, of the reference specimen. The voltage difference between the thermocouples is fed to a mirror galvanometer which regulates (via a photocell, transistor amplifier and a polarized relay) a relay controlling the output of the furnace. 2) Recording of differential thermal analysis graphs. Temperature differences between the standard and the sample (measured as voltage differences between the thermocouple) are fed to another mirror galvanometer, the positional change of which is sensed by a Its signal is amplified by a transistor and the output photocell. The sensitivity of the system is is fed to a line recorder. approximately 25 times the required value and, therefore, a negative feedback is introduced, Card 2/5

z/012/62/000/001/007/007 E112/E453

An automatic transistorized ...

3) Recording of temperature. Voltage across the thermocouple is compared with the voltage across a voltage divider tapped off by means of an Ericson step selector; thereby each step corresponded to a temperature rise of 100°C. The voltage difference is indicated by a profiled pointer; when in the zero position the pointer screens the photodiode, which is located inside the instrument behind a hole drilled into the scale and illuminated The photodiode controls the transistor amplifier from outside. and an auxiliary relay which shorts the recording instrument for about 2 sec and then shifts the selector to the next position. As the temperature increases, pulses are fed to the selector until equilibrium is reached. When the desired temperature is reached and measured, the selector switches off all the circuits and a buzzer is put into operation. Reversion of the selector to the zero position is by push button which operates a vibrating relay of a frequency of about 5 c/sec; this is automatically disconnected as soon as the zero value is reached. 4) Recording of the thermogravimetric graphs. The deflection of the balance beam is sensed by a photocell, placed in front of the Card 3/5

An automatic transistorized ...

Z/012/62/000/001/007/007 E112/E453

pointer to which an opaque flag is attached. In null position, the photocell is screened off by the flag. The photocell output is fed via a transistor amplifier to a feedback circuit and the recording instrument. An electromagnetic force (solenoid with permanent magnet) is used as null point restoring system. permanent magnet rod is suspended half way into a solenoid from the weighing pan of the balance and the force acting upon it is directly proportional to the current in the solenoid and, within certain limits, is independent of the position of the magnet. The polarity of the current is so chosen that it acts against the deflection of the balance beam. The current through the solenoid is recorded by means of a compensating line recorder. 5) Placing and arrangement of sample. Standard and sample were placed in two platinum crucibles on top of each other and housed in a ceramic tube. Two diagrams are included which show the balance assembly and the

arrangement of sample and standard in ceramic tube, also a circuit diagram. There are 3 figures,

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An automatic transistorized ...

Z/012/62/000/001/007/007 E112/E453

ASSOCIATION: výzkumný ústav pro hnědé uhlí v Mostě (Brown Coal Research Institute, Most)

SUBMITTED:

February 12, 1961

Card 5/5

FORMANEK, Zd.; DYKAST, J.

Recent use of electric elements for automatic thermal analysis. Silikaty 6 no.1:119-124 '62.

1. Skumny ustav pro hnede uhli v Moste.

34687

Z/009/62/000/002/001/002 E112/E453

/*P.J.100* AUTHORS:

Zahradník, Lubomír; Formanek, Zdeněk; Štovík, Miroslav;

Tyroler, Jirí; Vondrakova, Zdena

TITLE:

Refining of germanium dioxide

PERIODICAL: Chemicky průmysl, no.2, 1962, 60-63

For semiconductors extremely pure germanium of 99,999999999% purity, usually called "eleven nines", is required, The production of this pure metal, carried out by reduction of germanium dioxide and zone refining of obtained germanium, is economical only if an oxide with at least three nines is used as starting material. Therefore, germanium dioxide is refined for the elimination of various contaminants, above all of arsenic. The following preliminary refining methods were studied on a laboratory scale: 1) elimination by reduction with Zn, Al or SnCl2; germanium tetrachloride is unaffected by the above reducing agents, while AsCl3 is reduced to arsenic; 2) absorption of AsCl3 and GeCl4 in carbon tetrachloride, followed by oxidative extraction with HCl and HNO3. In this procedure AsCl3 is oxidized to the water-soluble H3AsO4 which can be extracted with Card 1/2

Z/009/62/000/002/001/002 E112/E453

Refining of germanium dioxide

water; 3) extraction of crude GeCl4 with HCl + HNO3; 4) separation by fractional distillation; 5) fractional distillation with simultaneous oxidation or reduction. The authors have now selected the distillation procedure, combined with absorption in CCl4 as a basis for further experiments on a semi-technical scale. The purity of GeO2 obtained after hydrolysis of the distillation absorbate in CCl4 was 99.9%, which is considered satisfactory in view of the fact that ordinary glass apparatus and ordinary distilled water were being used. The material was further refined by oxidative distillation with HCl and HNO3, using an electrolytic heating arrangement. (Heating in an oil bath proved unsatisfactory because of settling of GeO2.) The degree of refining was found adequate for the final zone-refining process. It is submitted that further improvements in refining could be achieved by using silica apparatus for the hydrolysis and hard glass for the distillation. There are 2 figures and 3 tables.

ASSOCIATION: Ústav nerostných surovin, Praha

(Institute for Mineral Raw Materials, Prague)

SUBMITTED: January 16, 1961

Card 2/2

S/081/63/000/001/048/061 B144/B186

LUTHORS:

Tyroler, Jiři, Formánek, Zdeněk, Vondráková, Zdena,

Zahradník, Lubomír, Štovík, Miroslav

TITLE:

Production of pure germanium dioxide from germanium

concentrates

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 1, 1963, 347, abstract

1L38 (Czechosl. patent 101148, October 15, 1961)

TEXT: Ge concentrates are distilled continuously with concentrated HCl (ratio 1: 1-2) with simultaneous bubbling of Cl_2 (gas) through the solution or addition of oxidants $(K_2\operatorname{Cr}_2\operatorname{O}_7 + \operatorname{H}_2\operatorname{SO}_4)$. The GeCl₄ vapors together with HCl, vapors Cl_2 and impurities are washed out of the gas mixture by organic solvents (CCl_4) ; then, the GeCl₄ dissolved in the organic solvent is washed with HCl (acid) and hydrolized. Example. The apparatus comprises 2 containers with agitators of 70 l capacity (the mixture is tapped from one container, while at the same time the other Card 1/2

Production of pure germanium ...

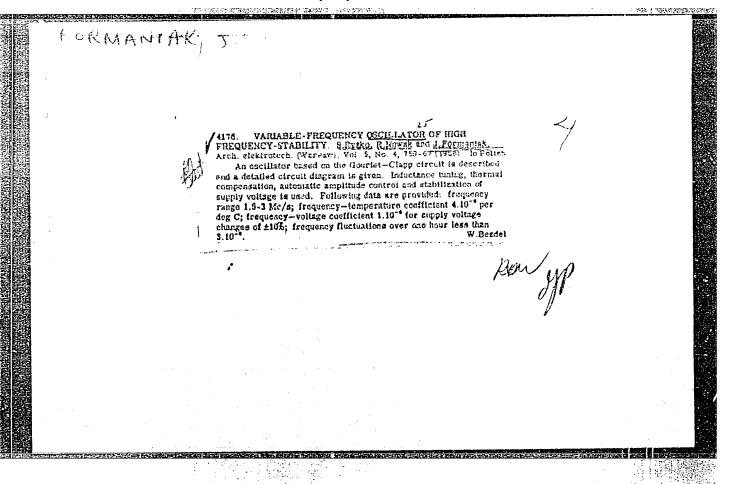
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tank is filled), a metering pump, a cooking boiler, a foam separator and an absorber. In the containers, the mixture of 25-30 kg concentrate and 50 kg HCl (acid) is prepared. The absorber is filled with CCl₄. The operation of the metering pump and the heating of the boiler is controlled in such a way that the foam entering the separator has a temperature of 100°C. From the separator the suspension is drained-off to waste, but the vapors are led into the absorber, from which GeCl₄ dissolved in CCl₄ is drawn off intermittently or continuously and hydrolized thrice with distilled water. The product contains 0.005 - 2% As and is a suitable raw material for semiconductors. [Abstracter's note: Complete translation.]

Card I/I

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413520004-2



I-3

TORMAN.AK JOZET

POLAND/Radio Physics - Generation and Transformation of Radio

Frequency Oscillations

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 11286

Author : Nowak Romuald, Formaniak Jozef

Inst : Not Given

Title : Stable Oscillator Tunable Over a Broad Frequency Range

Orig Pub: Zesz. nauk. Politechn. warsz., 1957, No 33, 149-151

Abstract : Brief description and circuit of an oscillator, tunable over

a range of 1.5 to 3 Mc and having a short-period frequency

stability of $\pm 3 \times 10^{-6}$.

Card : 1/1

KHORVAT, M. [Horvath, M.]; FORMANG Va. [Formanik, J.]

Effect of small concentrations of trichloroethylene on the higher

nervous activity of rats under long-term experimental conditions. Zhur. vys. nerv. deiat. 9 no.6:916-921 N-D '59. (MIRA 13:9)

1. Department of Physiology of Higher Nervous Activity, Institute of Labor Hygiene and Occupational Diseases, Prague, Chekhoslovakiya.

(ETHYLENE) (CONDITIONED RESPONSE)

DRDA, Karel, inz. FORMANKOVA, Hana, promovany fyzik.

Removal of ferromagentic impurities from paper pulp suspensions.

Sbor cel pap 8:169-190 '63.

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FOREGROS LOVERNA

J. DUBOVSKY, E. DUBOVSKA and J. FORMANOVA, Third Internal hedicine Clinic of Faculty of General Medicine (III. Internal blooks fabulty vaccoronebe likerstvi) Head (prednosta) Academician J. CHARVAT, Frague.

"High Exemetion of Dienrh mylic Alpha-Keto-Acids in Unine."

Prayue, Camopis Leioru Ceskych, Vol 182, No 16, 8 Mar 63; pp 275-276.

Anstract: Study of writary keto acids in 300 persons revealed unusually high levels in several specific conditions. High alpha-ketrglutaric acid levels in a number of patients with diabetes indicate a possible Krets cycle metabolic defect, heretofore not thought to be present in man. Oraph, table: 1 Czech and 5 Western references.

11/1

27

DUBOVSKY, J.; DUBOVSKA, E.; FORMANKOVA, J.

Imidazolactic acid in the urine. Cas. lek. Cesk. 104 no.44: 1216-1221 5 N '65.

l. Laborator pro endokrinologii a metatolismus pri III. interni klinice fakulty vseobecneho lekarstvi Karlovy University v Praze (reditel akademik J. Charvat). Submitted November 1964.

FORMANIAK, Jozef, mgr inz.

Two-channel digital recorder of static and quasi-static atreases. Lacznosc Wroclaw 5:174-176 °62.

1. Instytut Lotnictwa, Warszawa.

DUBOVSKY, J.; FORMANKOVA, J.; DUBOVSKA, E.

Hydroxylysines in the urine in osteopathies with marked changes in the bone matrix. Cas.lek.cesk. 103 no.7:187 L4 F*64.

1. III. interni klinika fakulty vseobecneho lekarstvi KU v Praze; prednosta: akademik J.Charvat.



DUBOVSKY, J.; PACOVSKY, V.; FORMANKOVA, J.

Qualitative changes in the plasma amino acid spectrum in Recklinghausen's disease of bone. Cas. lek. cesk. 103 no.47:1316-1317 20 N '64.

1. Laborator pro endokrinologii a metabolismus pri III. interni klinice fakulty vseobecneho lekaratvi Karlovy University v Praze, (vedouci akademik J. Charvat).

CZECHOSLOVAKIA

VINAR, O.; BASTECKY, J.; FORMANKOVA, M.; Psychiatric Research Institute, Prague - Bohnice. Zoriginal version not given 7.

"Propericiazine in Schizophrenic Psychoses."

Prague, Activitas Nervosa Superior, Vol 8, No 4, Nov 66, pp 453 - 455

Abstract: Propericiazine is a phenothiazine compound with a piperidine side chain, and belongs to the same group as thioridazine and mepazine. It is sold under the trade name Neuleptil. Tests with the use of the drug in the treatment of schizophrenic psychoses under continuous controlled conditions at the Psychiatric Research Institute at Prague are described. 45 patients were used in the trial; the dwatton of the disease varied between a weeks and 11 Years. The daily dose used was 5-15 mg/day at the beginning and 40-45 at the end of the treatment. After a weeks 23 patients could be discharged, 10 improved, 9 did not, and 3 were worse. Sociability, appearance and speech are most markedly improved. Best results were obtained with non-paranoid, hebeparenic and simplex forms of schizophrenia. Side offects are quite unpleasant; blood counts and liver were not affected. 4 Figures, 1 Table, no

FORMANOWICZ, M.

"Chipwood for Furniture Production", p. 5, (PRZEMYSL DRZEMNY, Vol. 5, No. 11, Nov. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

FORMANONICZ, M.

"New Trends of Finishing Furniture with Polish", p. 12, (PEZEMMEN, Vol. 5, No. 12, Dec. 1954, Warszawa, Poland)

SO: Monthly Hist of East European Accessions, (MMAL), LC, Vol. 4, No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"

FOPMANOWICZ, W.

Technology of furniture spraying with nitrolacquer, p. 16. (PRZEMYSL DRZEWNY, Warszawa, Vol. 6, no. 3, Mar. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. L, No. 1, Jan. 1955, Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"

FCEMARCWICZ, M. The finishing of furniture . p. 321.

Vol. 6, No. 11, Nov. 1955.
REZEMBLE INZEMBY.
TrCLNCIGGY
Warszaw, Poland

So: Fast European Accession, Vol. 5, No. 5, May 1956

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"

等均衡影

FORMANOWICZ, Mieczyslaw Polyester lacquers in the furniture industry. Pt. 1. Przem drzew 11 no.9:12-14 '60.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"

FORMANOWICZOWA, Hanna

Influence of some medical plant compounds upon the germination of seeds. Wiadom botan 6 no.4:333-338 162.

1. Instytut Przemyslu Zielarskiego, Poznan.

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FORMANOWICZOWA, Hanna

Studies on early spring sowing of medicinal plant seeds in the field. Inst przem ziel Biul 8 no.4:181-206 D '62.

1. Zaklad Botaniki Stosowanej i Aklimatyzacji, Instytut Przemyslu Zielarskiego, Poznan. Kierownik: dr J. Kozlowski.



FORMANOWICZOWA, Hanna; KOZLOWSKI, Jan, dr.

Experiments in propagating Lilium martagon L. from seeds and scalelike leaves of the bulbs. Inst przem ziel Biul 9 no.1/2:60-65 Mr-Je '63.

1. Zaklad Botaniki Stosowanej i Aklimatyzacji, Instytut Przemyslu Zielarskiego, Poznan. Kierownik: dr J. Kozlowski.

FORMANOWICZOWA, H.; KOZLOWSKI, J.

Tentative tests of the vitality of seeds of medical plants with the use of 2,3,5-triphenylotetrazole chloride. Wiadom botan 8 no. 3/4: Suppl: Biul ogrod botan no. 3/4: 244-247 '64.

1. Department of Applied Botany and Acclimatization of the Industrial Institute of Herbs, Poznan.

CZECHOSLOVAKIA/Pharmacology. Toxicology.

V

Abs Jour: Ref. Zhur. - Biol., No 22, 1958, 103017

Author : Formansk, Jaroslav

Inst: -

Title : Protective Inhibition in Rats After Intoxication

with Trichlorethylene.

Orig Pub: Pracovni lekar, 1957, 9, No. 6, 518-524

Abstract: The dynamics of the processes of the cerebral

cortex in intoxication with trichlorethylene (I) in concentrations of 1760-30,000 gamma/l was investigated in 5 rats. A fast exhaustion of the cortical cells, which conditions an inhibition of the reflex to sound stimulus, was discovered. The change of the reflex to light was

limited by the increase of the index of the

Card 1/2

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CZECHOSLOVAKIA/Pharmacology. Toxicology.

V

Abs Jour: Ref. Zhur. - Biol., No 22, 1958, 10317

latent period of this reflex by 75%. The application of narcotic and subnarcotic concentrations of I led to phenomena analogous to the effect of other toxic substances on HNA.

A. I. Marin

Card 2/2

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FORMAN HILL

FORMANSKI, J.

From above or from below, p. 18. (GOSPODARKA, ZBOZOWA, Warszawa, Vol. 6, no. 2, Feb. 1955)

SO: Nonthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4, Jan. 1955, Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"

FORMANSKI, J.

What the Party Economic Conference gave to the Affiliated Mills in Leszno, p. 20. (GOSPODARKA ZBCZCWA, Warszawa, Vol. 6, no. 2, Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, Jan. 1955, Uncl.

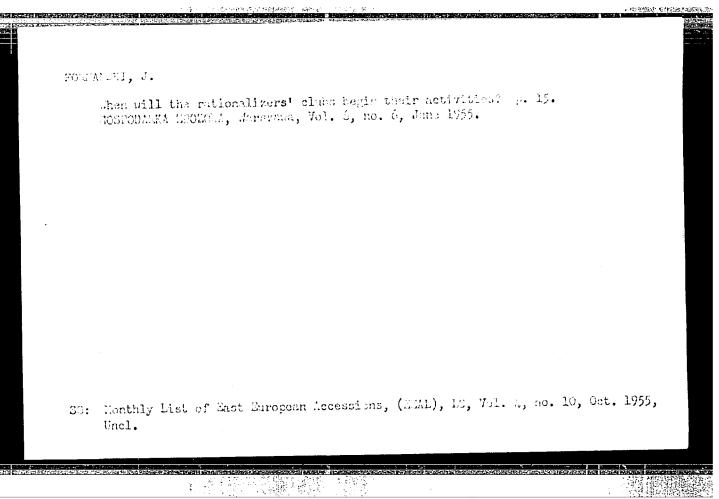
FORMANSKI, J.

Grain and floor pests in a mill, p. 22. (GOSPODARKA ZBOZCWA, Warszawa, Vol. 6, no. 2, Feb, 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4, Jan. 1955, Uncl.

FORMANSKI, J. How the Kalisz millers work, p. 24. (GOSPODARKA ZBOZWA, Warszawa, Vol. 6, no. 3, Mar. 1955.) SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, Jan. 1955, Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"



FORMANSKI, J.

To tighten collaboration between the readers and the periodical.

p. 20 Vol. 6, no. 7, July 1955 GOSPODARKA ZBOZOWA Warszawa

AGRICULTURE

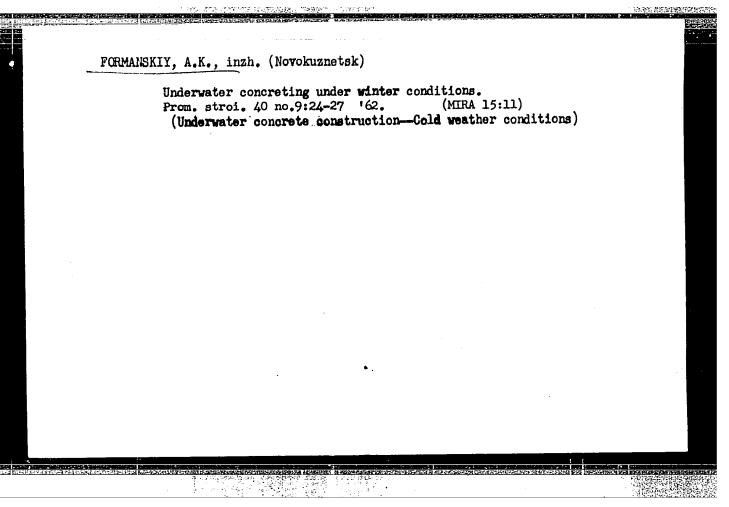
SO: Monthly List of East European Accessions (EFAL), LC, Vol. 5, no. 2

Feb. 1956

FORMANSKI, J.

This is not technical progress. p. 29. GOSPODARKA ZBOZOWA. Vol. 7, No. 5, May 1956. Warszawa.

East European Accessions List (EEAL) Library of Congress Vol. 5, No. 11, August 1956.



FORMAS, 1.

We heat with peat. p. 6.

ROLDIK SPOKUZIELCA. (Centrala Rolniczej Społdzielni "Samopomce Chlopska") Warszawa, Poland. Vol. 8, no. 30, July 1995.

Monthly list of East European Accessions (EFAI) LC, Vol. 9, nc. 2, 1eb. 1960

Uncl.

FORMAS, F.

FORMAS, F. The utilization of peat has finally begun. p. 6.

Vol. 9, no. 22, May 1956 ROLNIK SPOLDZIELCA AGRICULTURE Poland

So: East European Accession, Vol. 6, No. 5, May 1957

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"

Phey have fulfilled the clan of diverse peat in Narazawa Voizodechie and Slunsk, n. 6.
(POLNIK SPORMUTELCA. Vol. 2, no. 31, July 1956, Marszawa, Peland)

S0: Monthly list of Mast European Accessions (SPAL) IS. Jol. 6, no. 12, Dec. 1957.
Unel.

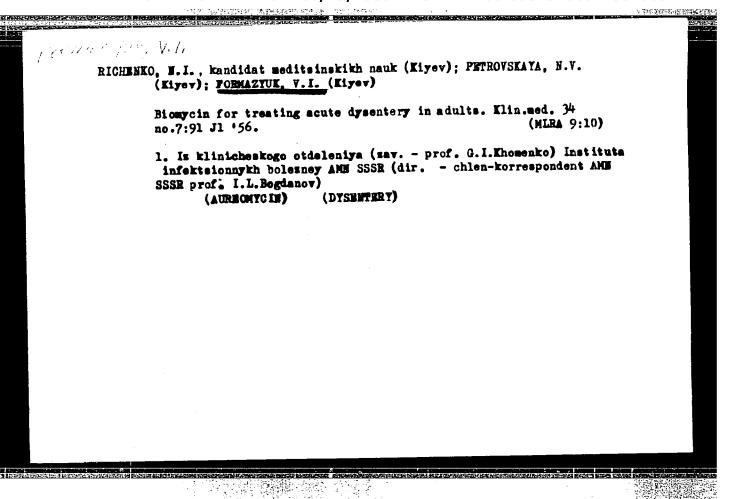
LUKASIAK, B.; BACIA, T.; FORMAS, J.

Studies on the mechanism of scleroderma. Behavior of sensory chronaxy in relation to pathological changes in various segments of the nervous system. Przegl. derm. 48 no.8/10:229-234 161.

1. Z Kliniki Dermatologicznej A.M. w Warszawie Kierownik: Prof. dr S. Jablonska.
(SCLERODERMA physiol)

(SENSATION)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"



P/528/61/001/000/006/007 D204/D307

AUTHORS:

Kupryszewski, Gotfryd and Formela, Malgorzata

TITLE:

Pentachlorophenyl esters of amino acids. IV. The application of pentachlorophenyl esters of N-shielded amino acids to the synthesis of

peptides

SOURCE:

Danzig. Wyższa Szko/a Pedagogiczna, Zeszyty naukowe. Matematyka, fizyka, chemia, v. 1,

1961. Danzig. 1962, 99 - 101

TEXT: This article is a continuation of previous studies (Roczniki Chem., 35, 931 (1961): 35, 595 (1961): 35, 1533 (1961)) in which a method for the preparation of active pentachlorophenyl esters (A) of N-shielded amino acids was developed. In the present work, the aminolysis of A was carried out in tetrahydrofuran or dioxan, using methyl or ethyl esters of other amino acids. Compounds A were found to be efficient acylating agents, reacting at room temperature to give 75-98% yields of the corresponding esters of N-shielded dipeptides. Card 1/2

Pentachlorophenyl esters ...

P/528/61/001/000/006/007 D204/D307

The following compounds were obtained: the ethyl esters of carbobenzoxyglycylglycine, carbobenzoxyglycyl-DL-phenylaniline, carbobenzoxyglycyl-L-tyrosine, carbobenzoxy-DL-alanylglycine, carbobenzoxy-L-leucylglycine, carbobenzoxy-DL-phenylalanylglycine, carbobenzoxy-L-leucylglycine, and phthalyl-DL-leucylglycine, and the methyl esters of phthalyl-DL-phenylalanylglycine and tosyl-DL-valylglycine. The use of water-miscible tetrahydrofuran and dioxan is necessary in view of the relatively low solubility of the pentachlorophenyl esters in ethyl acetate; despite the consequent difficulties in purifying the reaction products, the method proposed is essentially very simple. There is 1 table.

ASSOCIATION:

Katedra Chemii Organicznej Wyższej Szkoly Pedagogicznej, Gdańsk (Department of Organic Chemistry, Higher School of Education, Gdańsk)

SUBMITTED:

June 25, 1961

Card 2/2

KUPRYSZEWSKI, Gotfryd; FORMELA, Malgorzata

On aminoacid chlorophenyl esters. III. N-protected amino acid pentachlorophenyl esters. Rocz chemii 35 no.5:1533-1536 '61.

1. Department of Organic Chemistry, School of Education, Gdansk.

KUPRYSZEWSKI, Gotfryd; FORMEIA, Malgorzata

Amino acid chloropheryl esters. Pts. 6-7. Matem fiz chem

Gdansk 2 127-134 '62.

1. Department of Organic Chemistry, School of Education, Gdansk.

KUPRYSZELSKI, Gotfryd; FORFELA, Malgorzata

Depsipeptides. Pt.3. Rocz chemii 37 nc.2:161-165 '63.

1. Department of Organic Chemistry, Normal School, Gdansk.

FORMICHEV, V.

Credit

Broadening of credit relations within the economy. Den. i kred. No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

WATCHWA, L. I.
WATCHWA, L. I.
Watchids of Tree and Brushwood Varieties of the Steepe of the Eastern

Whilds of Tree and Brishwood varieties of the Steepe of the Backerian Ukrainian SSR and Certain Regularities in Their Distribution." Cand Riol Sci, Moscow State Redngogical Inst imeni V. J. Lenin, Moscow, 1954. (KL, No. 5, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13) SO: Sum. 50c, 20 Jul 55

FURNICITEVA N. I.

USSR/ Medicine - DDT Disinfection

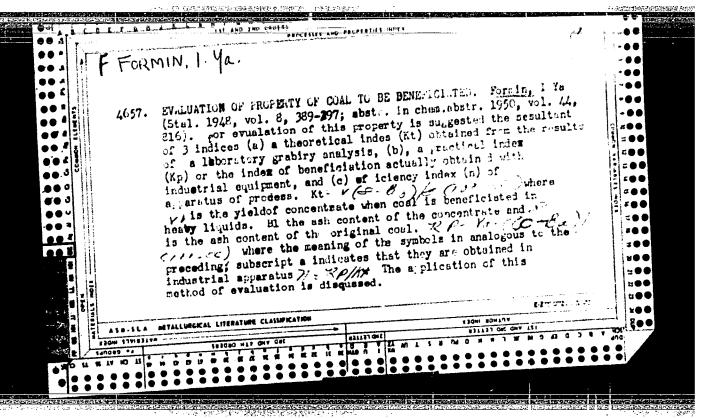
Nov 49

"Effectiveness of DDT and Hexachlorane Preparations in Disinfecting Railroad Passenger Cars," P. I. Mitikin, H. I. Pomicheva, Dept of Disinfection, Cer. Sci Res Lab of Hygiene and Epidemiol, Min of Transp USSR, 25 pp

"Gid i San" Ho 11

Gives statistics on disinfecting passenger cars by kerosene, 5% DDT in kerosene, DDT dust (10%) and hexaclorane dust (5-7%) in talcum. Ten-percent DDT proved more Effective in cars with upholstered seats—redding them of bedbugs for three trips (60) days—than in cars with hard seats. It was also more effective than disinfection with hexachlorane.

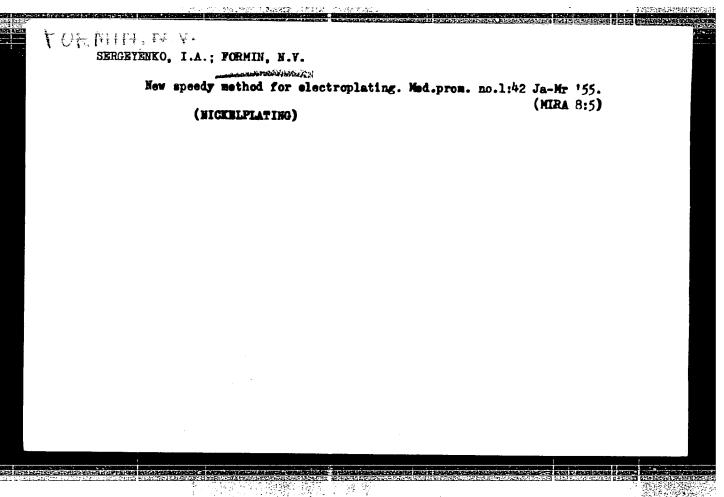
Pa 151T38



Increasing Wear Hesistance and Prolonging the wervice life of Parts With Large Gress-Section Area by Surface Hardening After Rapid Peating in Purpases

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- Povysteniye iznosostoykosti i proka slupby mashin. t. 2 (Increasin, the Mare Resistance and Extending the Service Life of implies. v. 2) Riyev, Ind-ve AN Warsin, 1960-290 p. 3,000 copies printed. (Series: Its: Trudy, t. 2)
- Sponsoring Agency: Vsescyumnoye nauchno-teknicheskoye obshehestve mashinostroitel 'noy promyshlennosti. Tsentral 'noye i Kiyevskoye oblastnoye pravleniya. Institut makhaniki AN Okr398.
- Editorial Board: Resn. Ed.: B. D. Grozin; Deputy Resn. Ed.: D. A. Draygor; M. P. Fraun, T. D. Faynersan, T. V. Kragel Inkiy; Scientific Secretary: M. M. Marshash; M. of v. 2: Ya. A. Samokhvalov; Tech. Ed.: M. P. Rakhlina.
- COVERIGE: The collection contains papers presented at the Third Scientific Technical Conference held in Eigev in September 1957 on problems of increasing the wear resistance and extending the service life of machines. The conference was sponsored by the Institut stroitel 'noy mekhaniki All Ukruuk (Institute of Structurel Dechanics of the Academy of Sciences Ukrainian SSR), and by the Riyevskaye oblastneya organizatsiya nauchno-tekhnicheskogo obshchestva mashinostroitel 'noy promyshlennosti (Siyev Degional Arganization of the Scientific Technical Decisty of the Dachine-Suilding Industry).



IVANOVA, T.G.; FORMIN, N.V.

Experiment in the use of radio centers containing KRU-2 and KRU-10 equipment. Vest.sviaxi 20 no.6:25-26
Je '60. (MIRA 13:7)

1. Starshiy inshener Glavnogo upravleniya radiofikatsii i vmutrirayonnoy elektrosvyasi Ministerstva svyazi RSFSR (for Ivanova). 2. Machal'nik Krasnoyarskoy krayevoy direktsii radiotranslyatsionnykh setey (for Formin).

(Wire broadcasting) (Radio operators)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"

AUTHOR: V. V. Formin, S. P. Vorobev, M. A. Andreeva

The Investigation of Complex Plutonium Oxalates by the Polaro-TITLE:

graphic Mothod

PERIODICAL: Yuan Tzu Nong, 1958, Vol 3, Nr 5, pp 450-456

ABSTRACT: The composition and stability of complex ions of tri-and tetra-

valent plutonium in oxalate solution were investigated by the authors using the polarographic method. The process is described. The ions of Pu $(C_2 O_4)_4^{-4}$ (predenderant) and Pu $(C_2 O_4)_4^{-5}$ were formed in potassium oxalate solution with pli 3.5-6. Pu+4 gave a well reverse reaction wave which is suitable for the quantitative determination of plutonium by the polarographic method. In 1M potassium oxalate solution, the oxidation-reduction potential of the above reaction is 0.205V (corresponding to a saturated calomel electrode at 25 C). At pH 6-8, the authors discovered that two Pu⁺⁴ complexes were simultaneously present. The authors determined the instability constants of Pu $(C_2 O_1)_1^{-5}$ from the data on the solubility of Pu $(C_2 O_1)_3$ and the polarographic method is: Kpu $(C_2 O_1)_4^{-5} = 2.4 \times 16^{-12}$, Kpu $(C_2 O_1)_3^{-3} = 2.2 \times 10^{-11}$,

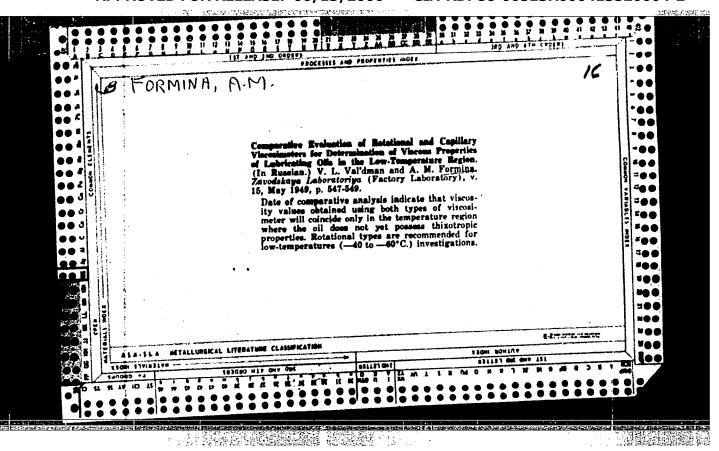
Card 1/2

The Investigation of Complex Plutonium Oxalates (Cont.) CHICOM/28-3-5-6/20

K Pu $(c_2 o_4)_4^{-4}$ = 33 x 10^{-28} . There are 4 figures 5 tables and 9 non-Chicom references.

131

Card 2/2



KLEBANSKIY, A.L., KARTSEV, V.N., FORMINA, L.P., TREMER, Yu.V.

Mfect of impurities in chloroprene on the stability of nairit rubber. Kauch.i rez. 19 no.7:1-3 Jl '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva.

(Rubber, Synthetic) (Chloroprene)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"

FORMINA, V.S.

Analytical design of cam mechanisms. Izv.vys.ucheb.zav.; prib. 3 no.2:102-113 *60. (MIRA 14:4)

l. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy teorii mekhanizmov i mashin i detaley mashin. (Cams)

FISCHER, R.; FORMINEK, J.; FRANTIKOVA, D.; HORVATH, M.

Changes of critical blinking frequency during the course of a workday in telephone operators. Cesk. fysiol. 9 no.1:12-13 Ja 60.

1. Vyzkumny ustav spoju. Ustav hygieny prace a chorob z povolani, Praha.

(FATIGUE)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"

DREUCEANU, A.; BAGIU, L.; SPOREA, I.; SIMION, L.; FORMINTE, Tr.

Theoretical and experimental studies on replacement of alloys for pistons of internal combustion motors. Bul St si Tehn Tim 7:171-175 '62.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413520004-2"

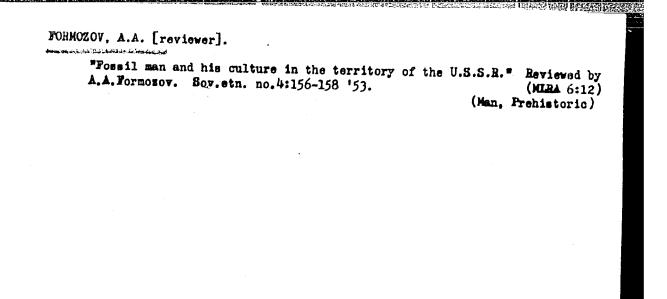
GORLINEYN, Ye.Ya.; FORMINSKAYA, A.A.

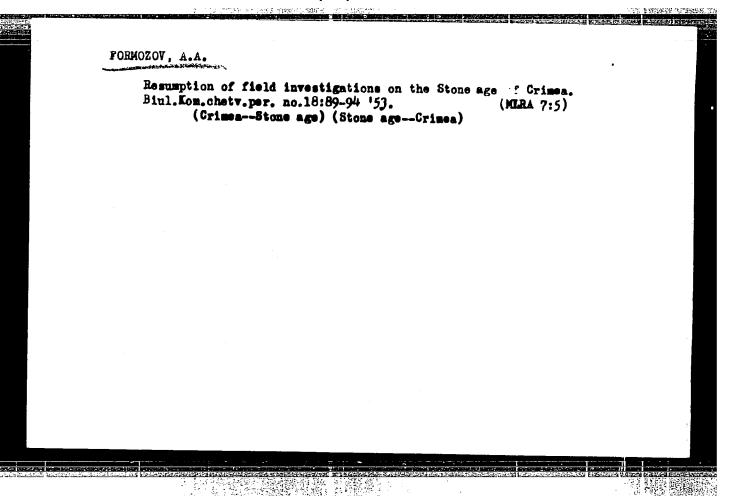
Reactions of lithium halides with water and diethyl ether in acetone. Zhur. neorg. khim. 9 no.9:2153-2158 S '64.

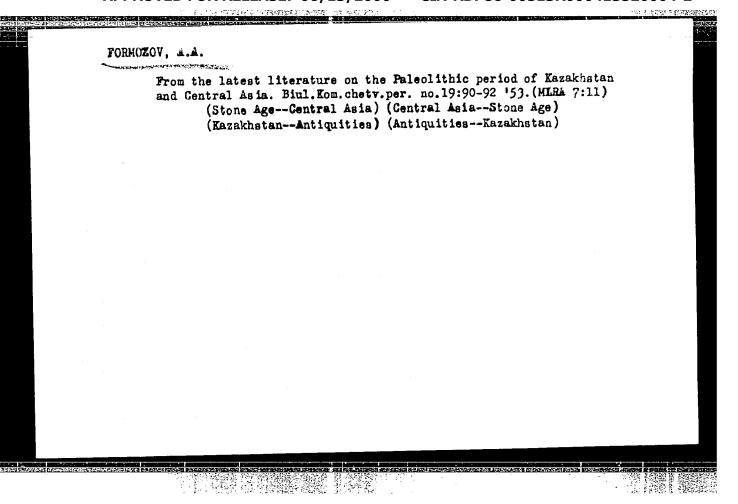
(MTRA 17:11)

- 1. FORMOZOV, A. A.
- 2. USSR (600)
- 4. Man, Prehistoric
- 7. History of migratory tribes of primitive man in the mesolithic era, Sov. etn., no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.







FORMOZOV, A. A. USSR/Miscellaneous Paleontology Card 1 1/1 Formozov, A. A. Authors Title Finding human remains in Crimea during excavation Priroda, 43/7, 109 - 112, July 1954 Periodical Abstract The finding of remains of an ancient people in Crimea, believed to have lived during the period of the Neanderthal man, is described. An enalysis is given of the peculiarities of the skeletons and the significance of the implements used by the people. Illustrations. Institution : Submitted

[Studies of the lewer paleolithic in the U.S.S.R. during the last decade (1946-1955)] Isuchenie nishnego paleolita SSSR sa poslednie

decade (1946-1955)] Isuchenie histologo pateorita siste sa postednie desiat' let (1946-1955); deklady Sevetskoi delegatsii na V Mezhdunarodnem kongresse antropologov i etnografov, Moskva, Izd-ve Akad. nauk SSSR, 1956. 24 p. [Parallel texts in Russian and French.]

(MIRA 10:4)

(Russia--Stone age)